

What is claimed is:

1. A computer-based lecture recording and reproducing method using a lecture recording and reproducing program including an information inputting unit for inputting a stroke information during a lecture, a voice inputting unit for inputting a voice data during a lecture, and a voice outputting unit for outputting the reproduced voice data, the method comprising:

recording a lecture including:

executing the lecture recording and reproducing program to display an initial screen window;

opening a lecture file for a recording on the window;

copying an information of the lecture file to a memory of the computer when a record function is selected; and

writing a content inputted from the information input unit onto the memory of the computer, displaying a shape of graphic tool when the stroke information stored in the memory is displayed on the window, and storing the stroke information and the voice data in the lecture file, respectively, inputted through the information inputting unit and the voice inputting unit, whereby the lecture is recorded in the lecture file; and

reproducing the recorded lecture including:

opening the lecture file for a reproduction on the window;

writing all information except the stroke information and the voice data of the information of the lecture file into the memory and displaying all information except the stroke information and the voice data of the information of the lecture file on the window, when a reproduction function is selected; and

writing the stroke information stored in the lecture file into the memory, displaying the stroke information written in the memory on the window, and reproducing the voice stored in the lecture file to be outputted via the voice outputting unit.

2. The method of claim 1, wherein the graphic tool is displayed in a pen shape when the stroke information is inputted, and is displayed in an eraser shape when the inputted stroke information is removed.

3. The method of claim 1, wherein the lecture recording and reproducing program stores an image information for the lecture in the lecture file and displays the image information on the window.

4. The method of claim 3, wherein the image information includes an information of a captured screen.

5. The method of claim 4, wherein the image information includes a graphic image file.

6. The method of claim 1, wherein the lecture file includes a header region, a stroke information region, a draw information region, an image information region, and a voice data region.

7. The method of claim 6, wherein the draw information and the image information are stored before the recording or when the recording is momentarily paused.

8. The method of claim 6, wherein the header of the lecture file includes a date and time information, a version information, a recognizer, a comment, a start location of a stroke information, a size of a stroke information, a start location of a draw information, a size of a draw information, a start location of an image information, a

size of an image information, a start location of a voice data, a size of a voice data, a resolution information, and a reserved region.

9. The method of claim 6, wherein the stroke information region of the lecture file stores a stroke record and a point record, the stroke record including the total stroke number, a pen thickness, a pen color, a starting time of a stroke, an ending time of a stroke, a kind of a tool, a background color information, the total number of a point produced in the stroke, and a point information indicating a previous stroke and a next stroke, the point record including a time when a point is produced, a point location information, an event information generated during a lecture recording, and a point information indicating a previous point and a next point.

10. The method of claim 6, wherein the draw information region of the lecture file stores a draw object type including a free line object and a letter object, an object color, a pen type, a pen thickness, a brush style, a location information and a layer information,

a free line object including a region information having a starting point and an ending point of the free line, an object ID, an object color, a color before an object is drawn, a pen thickness of the free line, the total point number, a layer information, a location for a first point, a letter object including a location information for a character string to be displayed, a region information, a font information, a size, a color, a background color, a background mode, a layer information, a character string information to be actually displayed.

11. The method of claim 6, wherein the image information region stores a location for the image to be displayed, an actual size of the image, an image type, a starting location information of respective images in the lecture file when one or more

images are used, an image information, a size information of the image file, a starting time for the image to be displayed, a time for the image to be deleted.

12. The method of claim 1, wherein the lecture recording and reproducing program produces a stroke record whenever an up or a down event occurs by the information inputting unit during the recording, produces an information generated by a movement of the information inputting unit as a point record following the stroke record to be stored in the stroke information region of the lecture file, and stores a time information when the stroke record and the point record are produced during storing the stroke information.

13. The method of claim 12, wherein the lecture recording and reproducing program reproduces the stroke information and the voice data by using a time information stored in the stroke information region according a system timer set during a reproduction operation.

14. The method of claim 13, wherein the lecture recording and reproducing program reproduces the stroke information by using an information stored in the stroke record and the point record stored in the stroke information region during a reproduction operation.

15. A method of reproducing a lecture by using a computer including a voice outputting unit for outputting a reproduced voice data and a lecture reproducing program for reproducing a recorded lecture, the method comprising:

executing the lecture recording and reproducing program to open an initial screen window;

opening the recorded lecture file on the window;

writing all information except a stroke information and a voice information of informations of the lecture file into a memory of the computer and displaying all information except a stroke information and a voice data of information of the lecture file on the window, when a record function is selected; and

outputting a voice stored in the lecture file through the voice data unit while writing a stroke information stored in the lecture file into the memory and displaying the stroke information written in the memory together with a graphic tool shape.

16. The method of claim 15, wherein the graphic tool shape is a pen shape.